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EXAMINER:

DATE CONSIDERED: 9-8-04

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Information Disclosure Statement--PTO 1449 (modified)

(2-92)

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Form PTO-1449										Atty. Docket No. 5863-00203		Serial No. 10/772,071			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)										Applicant C. D. Huston, D. J. Cornish					
										Filing Date 2/4/2004		Group 2681			
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ga	AA	5	3	2	6	0	9	5	7/5/94	Douglas Dudley					
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER								DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)															
EXAMINER <i>Gregory E. Lang</i>										DATE CONSIDERED 9-8-04					
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §509; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Form PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		5863-00203		Serial No. 10/772,071							
Information Disclosure Citation (Use several sheets if necessary)				Applicant C.D. Huston, D.J. Cornish									
				Filing Date 2/4/2004		Group 2681							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
gr	AB	5	0	5	6	1	0	6	8/10/91	Wang et al.	375	1	
	AC	4	7	5	1	5	1	2	14/06/88	Longaker	342	357	
	AD	5	0	4	4	6	3	4	03/09/91	Dudley	273	32R	
	AE	4	7	8	3	0	7	1	08/10/88	Tattershall	273	32H	
	AF	4	6	6	6	1	5	7	19/05/87	Bodine	273	32H	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
gr	AG	9	3	1	2	4	3	9	24/06/93	PCT, Australia			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
EXAMINER		DATE CONSIDERED											
Gregory C. Ruiz		9-8-04											
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List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Charles D. Huston and Darryl J. Cornish	
		Filing Date: 2/4/2004	Group: 2681
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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date If App.
<i>SP</i>	A1	3,126,545	3/24/64	Smith	343	103	11/23/60
	A2	3,150,372	9/22/64	Groth, Jr.	343	112	6/23/59
	A3	3,182,314	5/4/65	Kleist et al.	343	6.5	6/4/62
	A4	3,375,520	3/26/68	De Groot et al.	343	103	5/7/65
	A5	3,771,483	11/13/73	Bond	114	39	10/29/71
	A6	3,868,692	2/25/75	Woodard et al.	343	112	9/13/73
	A7	4,027,840	6/7/77	Blair	246	122	9/30/75
	A8	4,086,630	4/25/78	Speiser et al.	364	410	1/19/76
	A9	4,136,394	1/23/79	Jones et al.	364	561	9/23/77
	A10	4,297,710	10/27/81	Dupressoir	343	756	3/4/80
	A11	4,303,243	12/1/81	Wolfe	273	176	6/17/80
	A12	4,359,733	11/16/82	O'Neill	343	6.5	9/23/80
	A13	4,419,655	12/6/83	May	340	323	7/30/80
	A14	4,480,310	10/30/84	Alvarez	364	450	7/9/82
	A15	4,489,314	12/18/84	Miller	340	568	9/23/82
	A16	4,656,463	4/7/87	Anders et al.	340	572	4/21/83
	A17	4,656,476	4/7/87	Tavtigian	340	993	8/26/85
	A18	4,698,781	10/6/87	Cockerell, Jr.	364	561	4/9/86
	A19	4,703,444	10/27/87	Storms, Jr. et al.	364	561	4/3/86
	A20	4,754,465	6/28/88	Trimble	375	1	5/7/84
	A21	4,783,744	11/8/88	Yueh	364	454	12/8/86
	A22	4,785,463	11/15/88	Janc et al.	375	1	9/3/85

Examiner:

Date Considered:

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Information Disclosure Statement — PTO-1449 (Modified)

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
Gr	A23	4,819,174	4/4/89	Furuno et al.	364	444	1/29/87
	A24	4,823,086	4/18/89	Whitmore et al.	324	434	7/1/88
	A25	4,847,862	7/11/89	Braisted et al.	375	1	4/7/88
	A26	4,857,886	8/15/89	Crews	340	323	2/26/88
	A27	4,863,123	9/5/89	Bernard et al.	246	122	9/1/87
	A28	4,896,580	1/30/90	Rudnicki	89	1,815	12/21/88
	A29	4,906,825	3/6/90	Wu	235	95	12/9/88
	A30	4,910,677	3/20/90	Remedio et al.	364	410	5/18/88
	A31	4,926,161	5/15/90	Cupp	340	572	10/23/89
	A32	4,970,523	11/13/90	Braisted et al.	342	418	3/27/89
	A33	5,025,261	6/18/91	Ohta et al.	342	357	1/16/90
	A34	5,039,091	8/13/91	Johnson	272	131	10/19/90
	A35	5,086,390	2/4/92	Mathews	364	410	1/16/90
	A36	5,095,430	3/10/92	Bonito et al.	364	410	4/17/90
	A37	5,097,416	3/17/92	Mathews	364	410	1/16/90
	A38	5,108,334	4/28/92	Eschenbach et al.	455	314	6/1/89
	A39	5,127,044	6/30/92	Bonito et al.	379	88	2/20/90
	A40	5,129,605	7/14/92	Burns et al.	246	5	9/17/90
	A41	5,148,002	9/15/92	Kuo et al.	219	211	3/14/91
	A42	5,163,004	11/10/92	Rentz	364	460	1/11/91
	A43	5,214,679	5/25/93	Metcalf	377	5	6/13/91
✓	A44	5,223,844	6/29/93	Mansell et al.	342	357	4/17/92
	A45	5,245,537	9/14/93	Barber	364	410	11/25/91

Examiner: *Hughes*Date Considered: *9-8-04*

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Information Disclosure Statement — PTO-1449 (Modified)

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
g	A46	5,270,936	12/14/93	Fukushima et al.	364	444	9/23/92
	A47	5,305,201	4/19/94	Matthews	364	410	1/24/92
	A48	5,345,244	9/6/94	Gildea et al.	342	357	1/12/93
	A49	5,355,140	10/11/94	Slavin et al.	342	386	9/15/92
	A50	5,364,093	11/15/94	Huston et al.	273	32	12/10/91
	A51	5,379,045	1/3/95	Gilbert et al.	342	357	9/1/93
	A52	5,434,789	7/18/95	Fraker et al.	364	460	10/6/93
	A53	5,491,486	2/13/96	Welles, II et al.	342	357	4/25/94
	A54	5,510,797	4/23/96	Abraham et al.	342	352	4/15/93
	A55	5,512,902	4/30/96	Guthrie et al.	342	357	4/18/94
	A56	5,519,403	5/21/96	Bickley et al.	342	352	11/29/93
	A57	5,524,081	6/4/96	Paul	364	460	5/2/94
	A58	5,550,551	8/27/96	Alesio	342	457	7/25/94
	A59	5,552,772	9/3/96	Janky et al.	340	573	12/20/93
✓	A60	5,568,119	10/22/96	Schipper et al.	340	825.370	12/21/93
	A61	5,568,152	10/22/96	Janky et al.	342	357	2/4/94

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
g	B1	JP 2-189414	25 Jul 90	Japan	5	—	No
	B2	JP 3-78678	3 Apr 91	Japan	5	—	No
✓	B3	JP 3-92714	17 Apr 91	Japan	5	—	No

Examiner: *Gregory B. Duff*Date Considered: *9-8-04*

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Information Disclosure Statement — PTO-1449 (Modified)

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Form PTO-1449 (modified)		Atty. Docket No. 5863-00203	Serial No. 10/772,071
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Charles D. Huston and Darryl J. Comish	
		Filing Date: 2/4/2004	Group: 2681
U.S. Patent Documents See Pages 1-3	Foreign Patent Documents See Page 3	Other Art See Pages 3-8	

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
gi	B4	JP 3-134715	07 Jun 91	Japan	5		Yes
	B5	JP 4-20360	23 Jan 92	Japan	5		No
	B6	JP 4-335178	24 Nov 92	Japan	5		No
	B7	JP 5-19035	26 Jan 93	Japan	5		No
	B8	JP 5-46079	26 Feb 93	Japan	5		No
	B9	UK 2 246 198 A	22 Jan 92	GB			Yes
	B10	WO 87/06713	5 Nov 87	PCT	4		Yes
	B11	WO 95/21386	10 Aug 95	PCT	6		Yes
	B12	WO 96/21161	11 Jul 96	PCT	6		Yes
✓	B13	WO 96/35197	07 Nov 96	PCT	6		Yes

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
gi	C1	Magnavox Advanced Products and Systems Company, brochure: "After Challenger: Marine Satellite Navigation at The Crossroads," (1986) 5 pp.
	C2	Trimble Navigation, brochure: Information (1989) 26 pp.
	C3	Beser et al., "The Application of NAVSTAR Differential GPS in the Civilian Community," Journal of The Institute of Navigation; (Vol. 29, No. 2, Summer 1982), pp. 107-136
✓	C4	Yiu, et al., "A Low-Cost GPS Receiver for Land Navigation," Journal of The Institute of Navigation; (Vol. 29, No. 3, Fall 1982), pp. 204-220

Examiner: *George J. [Signature]*Date Considered: *8-8-00*

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Information Disclosure Statement — PTO-1449 (Modified)

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U.S. Patent Documents See Pages 1-3	Foreign Patent Documents See Page 3	Other Art See Pages 3-8	

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
9c	C5	Vanicek et al., Department of Surveying Engineering, Univ. of New Brunswick, Canada, "The Future of Geodetic Networks," (1983) pp. 372-379
	C6	Parkinson et al., "NAVSTAR: Global Positioning System -- Ten Years Later," IEEE, Vol. 71 No. 10 (October 1983), pp. 1177-1186
	C7	Simsell, "Civil GPS From a Future Perspective," IEEE, Vol. 71, No. 10 (October 1983), pp. 1187-1192
	C8	Pietraszewski, "A Short and Long Term Comparison of LORAN-C and Civil NAVSTAR GPS Signal Stabilities," (1984) 17 pages
	C9	Braisted, et al., "Combining LORAN and GPS -- The Best of Both Worlds," Journal of The Institute of Navigation, (Vol. 33, No. 1, Spring 1986) pp. 20-25
	C10	Dork, "Satellite Navigation Systems for Land Vehicles," (November 1986) pp. 414-418
	C11	Aggarwal, Magnavox Advanced Products and Systems Company, "Integration of Differential GPS with INS for Precise Position, Attitude and Azimuth Determination," (September 1987) 10 pages
	C12	Klass, "Industry Devising GPS Receivers With Hybrid Navigation Aids," Aviation Week & Space Technology (December 14, 1987) pp. 121-122
	C13	Canadian GPS Associates, "Land Applications In Transportation and Communication," (January 1988) 2 pages
	C14	Ashjaee, "Differential GPS With Ashtech XII," IEEE (1988) pp. 318-322
	C15	Green, "The GPS 21 Primary Satellite Constellation," (1988) 7 pages
	C16	Beck, et al., "Proceedings of the First Global Positioning System," (January 1988) pp. 1-38
	C17	Vanicek, "Hiking and Biking with GPS: The Canadian Perspective," (April 1988) pp. 225-229
	C18	Greening, "GPS Surveys and Boston's Central Artery/Third Harbor Tunnel Project," (May 1988) pp. 165-171
✓	C19	Gerlach et al., "Evaluation of GPS Instruments For Resource Management Applications," (September 1988) pp. 503-507

Examiner: George B. J. P. Date Considered: 9-8-04
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Information Disclosure Statement — PTO-1449 (Modified)

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		Filing Date: 2/4/2004	Group: 2681
U.S. Patent Documents See Pages 1-3	Foreign Patent Documents See Page 3	Other Art See Pages 3-8	

<input checked="" type="checkbox"/>	C20	Hunter et al., "Land Navigation and Fleet Management With GPS, LORAN and Dead Reckoning Sensors," (November 1988) pp. 54-60
<input type="checkbox"/>	C21	Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498
<input type="checkbox"/>	C22	Hunter, et al., "Vehicle Navigation Using Differential GPS," (November 1988) pp. 139-143
<input type="checkbox"/>	C23	Palmer, "Precise Navigation, Guidance and Control Services within the Agricultural Community," The Journal of Navigation Vol. 42, No. 1 (January 1989)
<input type="checkbox"/>	C24	Hum, "GPS A Guide To The Next Utility," Trimble Navigation (1989)
<input type="checkbox"/>	C25	Brunnighan, et al., "Orientation Aid Implementing the Global Positioning System," (March 1989) pp. 33-34
<input type="checkbox"/>	C26	Magnavox Advanced Products & Systems Company, "Points & Positions," Vol. VI, No. 1 (Spring 1989)
<input type="checkbox"/>	C27	Trimble Navigation, brochure: "NavGraphic II, GPS/LORAN Receiver," (May 1989) 6 pages
<input type="checkbox"/>	C28	Green et al., "Space Applications of GPS," (January 1989) Journal of the Institute of Navigation Vol. 36, No. 3 (Fall 1989) pp. 239-251
<input type="checkbox"/>	C29	Lachapelle, "A Comparative Analysis of LORAN-C and GPS for Land Vehicle Navigation in Canada," (September 1989) 3 pages
<input type="checkbox"/>	C30	Harris et al., "AVLN 2000™ Automatic Vehicle Location and Navigation System," (1989) pp. 126-130
<input type="checkbox"/>	C31	Banks, "DATATRAK Automatic Vehicle Location and Position Reporting System," (1989) pp. 214-218
<input type="checkbox"/>	C32	Bell, "Vehicular C/N - A Global Satellite Solution," pp. (1989) 403-408
<input type="checkbox"/>	C33	Foster, "Vehicle Location for Route Guidance," (1989) pp. 11-16
<input type="checkbox"/>	C34	Saldin, et al., "Magnavox Automatic Vehicle Location Pilot System for the Toronto Department of Ambulance Services," (1989) pp. 194-201
<input type="checkbox"/>	C35	Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155
<input type="checkbox"/>	C36	Parviainen, et al., "Future Mobile Information Systems: Potential applications and Systems Features," (1989) pp. A-36 - A-42
<input checked="" type="checkbox"/>	C37	Pedersen, "User Applications of Mobile Satellite Services," (1989) pp. 398-402

Examiner:

Date Considered:

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Information Disclosure Statement — PTO-1449 (Modified)

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U.S. Patent Documents See Pages 1-3		Foreign Patent Documents See Page 3	Other Art See Pages 3-8
52	C38	Hunter, "Vehicle Navigation and Fleet Management using Differential GPS," (1989) p. 366	
	C39	Feuerstein et al., "A Precision Automatic Vehicle Location System for Use in Construction Automation," (1989) pp. 202-205 and A-43	
	C40	Perlstein, "Automatic Vehicle Location Systems: A Tool for Computer Aided Despatch Systems of the Future," (1989) pp. 186-192 and Figure 1	
	C41	Green et al., "La Constellation Primaire GPS A Vingt Et Un Satellites," (October 1989) pp. 469-485	
	C42	Langley, "Radionavigation in a Time of Change," (Electronics & Communication Engineering Journal (November/December 1989) pp. 281-287	
	C43	Wilkie, "Performance of a Backpack GPS in a Tropical Rain Forest," Photogrammetric Engineering and Remote Sensing, Vol. 55, No. 12, December 1989) pp. 1747-1749	
	C44	Palmer, "Techniques of Navigating in a Farm Field," (Journal of The Institute of Navigation," Vol. 36, No. 4 (Winter 1989-90) pp. 337-344	
	C45	RTCM Special Committee No.104, "RTCM Recommended Standards For Differential NAVSTAR GPS Service," Version 2.0 (January 1, 1990)	
	C46	Goad, "Determination of Precise Position of a Moving Vehicle with GPS," (1990) pp. 367-272	
	C47	U.S. Dept. of Transportation, "1990 Federal Radionavigation Plan #DOT-VNTSC-RSPA-90-3/DOD-4650.4," (1990) pp. cover sheet, 2-30 - 2-31; 3-42	
	C48	Lachapelle et al., "Analysis of GPS and LORAN-C Performance for Land Vehicle Navigation in the Canadian Rockies," IEEE AES Magazine, (May 1992) pp. 24-28	
	C49	Lachapelle et al., "Hybrid GPS/LORAN-C: An Effective Radionavigation System Mix for Vehicular Navigation in Mountainous Areas," (June 1992) pp. 1-9	
	C50	Lachapelle, et al., "Quadruple Single Frequency Receiver System for Ambiguity Resolution On The Fly," ION PGS93 (September 1993) pp. 1, 3, 5	
	C51	Lachapelle, et al., "GPS Versus LORAN-C For Vehicular Navigation in Urban and Mountainous Areas," IEEE VNIS93, (October 1993) 2 pages	
	C52	Melgard, et al., "GPS Signal Availability in an Urban Area - Receiver Performance Analysis," IEEE PLANS'94 (April 1994) pp. 1/7, 3/7, 5, 7/7	
↓	C53	Lachapelle et al., "GPS System Integration And Field Approaches In Precision Farming," ION National Technical Meeting/San Diego (January 1994) pp. 1, 3, 5, 7	

Examiner:

Date Considered:

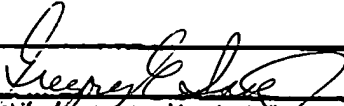
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Information Disclosure Statement — PTO-1449 (Modified)

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		Filing Date: 2/4/2004	Group: 2681
U.S. Patent Documents See Pages 1-3		Foreign Patent Documents See Page 3	Other Art See Pages 3-8
96 ✓	C54	Purkey, "On Target," Golf Magazine May (1994) pp. 120-121	
	C55	Parkinson, "A History of Satellite Navigation," Journal of The Institute of Navigation Vol. 42, No. 1, Special Issue (1995) pp. 109-164	
	C56	Blackwell, "Overview of Differential GPS Methods," (January 1985) pp. 88-101	
	C57	Transcript of Deposition of Gaylord B. Green; Defendant's Exhibits 1-4, 6-7, 9-15; and Plaintiffs' Exhibit 1 (May 17, 1997)	
	C58	Transcript of Deposition Upon Oral Examination of Howard Israel and Exhibits 1-2 (June 24, 1997)	
	C59	Transcript of Telephonic Deposition of Lawrence Molnar and Exhibits 1-2 (July 1, 1997)	

Examiner: 	Date Considered: 8-8-01
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